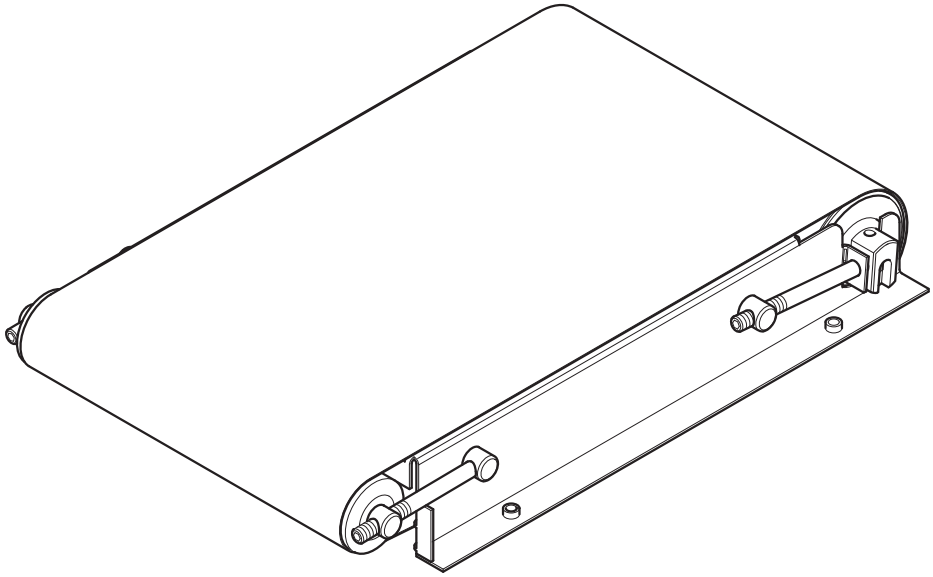
WE MAKE THE WORLD MOVE



User manual

Interroll Cassette

6C Type

L-, U-, T-, W- and C-Design

Version 1.0 (11/2011) en
Original instructions

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Version 1.0 (11/2011) en
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Introduction

Handling of the user manual

This manual covers the following models of Interroll Cassette 6C Type:

- L-, U- Design (standard models)
- T-, W-, and C-Design (other models)

Contents of the manual

This manual contains important advice, notices, and information about the cassette for all phases of its lifecycle:

- Transport, assembly, and start-up
- Safe operation, required maintenance, remedy of possible faults
- Spare parts, supplementary accessories

Validity of the manual

The manual describes the finished cassette as delivered by Interroll.

Supplementary to this manual, special contractual and technical documents apply to special cassette versions and additional appliances.

This manual is an integral part of the product

- ➢ For trouble-free and safe operation, and warranty claims, read this manual first and observe all of the information contained herein.
- ➢ Keep this manual near the Cassette.
- ➢ Pass this manual on to any subsequent owner or user of the Cassette.
- ➢ Interroll does not accept any liability for malfunctions or defects due to failure to observe this manual.
- ➢ If you have any questions after reading this user manual, feel free to contact customer service. See the last page for contact information.

Warnings in this manual

The warnings in this document refer to risks which may arise while using the Cassette. For relevant warnings, *see "Safety", page 4* and the warnings at the beginning of each chapter.

There are three categories of danger. The following signal words are used in the document as required:

- DANGER
- WARNING
- CAUTION

Signal word	Meaning
DANGER	Indicates a hazardous situation which, if not avoided, will result in death or serious injury.
WARNING	Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
CAUTION	Indicates a hazardous situation which, if not avoided, may result in minor or moderate injury.

Introduction

Structure of warnings

⚠ DANGER

Nature and source of the hazard
Possible consequence of non-observance

➢ Information about how to avoid the hazard.

Additional symbols

NOTICE

This symbol identifies possible material damage.
➢ Information about how to avoid damage.

This symbol displays safety instructions.

This symbol marks useful and important information.

➢ This symbol marks the steps that must be carried out.

Safety

General safety instructions

The Cassette is designed according to state of the art technology, and is reliable in operation, once distributed. However, risks may still arise.

- Danger of death or risk of physical injury to the user or bystanders.
- Adverse effects on the Cassette and other areas.

Disregarding the warnings in this manual may lead to serious injury.

- ➢ Always read the entire operating and safety instructions before starting to work with the Cassette and follow the information contained herein in full.
- ➢ Only instructed and qualified persons may work with the Cassette.
- ➢ Always keep this user manual onhand when working on the Cassette so that you can consult it quickly if required.
- ➢ Always comply with relevant national safety regulations.
- ➢ If you have any questions after reading this user manual, feel free to contact customer service. See the last page for contact information.

Intended use

The Cassette is intended for use in supermarket checkouts and in equipment used in supermarkets, including Retail Based Reversed Vending Machinery. Any other use is not permitted. Operating conditions which deviate from those specified, require new contractual agreements.

Use of the Cassette is only allowed in the areas described under product information.

Any changes that affect the safety of the product are not allowed.

Unintended use

The Cassette may not be used to transport persons or bulk goods.

Applications not in accordance with the intended use of the Cassette require approval from Interroll.

Safety

Qualified persons

Qualified persons are persons who read and understand the manual and, taking national regulations into account, can competently execute incidental work.

Only instructed and qualified persons may work with the Cassette, taking the following into account:

- the relevant manuals and diagrams,
- the warning and safety instructions in this manual,
- the system specific regulations and requirements,
- national or local regulations and requirements for safety and accident prevention.
- According to German accident prevention regulation (BGV A2), **electricians** must be able to assess and recognize possible dangers when performing entrusted tasks based on their professional knowledge, experience and knowledge of the relevant regulations.

Risks

The following list describes the various types of danger or damage that may occur while working with the Cassette.

Persons

- ➢ Maintenance or repair work must only be performed by authorized and qualified persons in accordance with applicable regulations.

Electricity

- ➢ Only perform installation and maintenance work after you have switched off the power. Ensure that the Cassette cannot be turned on accidentally.
- ➢ Do not remove protective covers or housings.

Rotating parts

- ➢ Do not insert fingers between the Drum Motor and the belt as well as other moving parts of the Cassette.
- ➢ Tie up long hair.
- ➢ Do not wear loose clothing.
- ➢ Remove jewelry such as bracelets or wristbands.

Working environment

- ➢ Remove equipment or material which is not required from the workspace.
- ➢ Always wear safety shoes.
- ➢ Clearly specify and monitor the way goods are placed on the Cassette.

Avoiding malfunctions in operation

- ➢ Regularly check the Cassette for visible damage.
- ➢ In case of fumes, unusual noise or blocked or damaged goods, defective support stands, side guides or accessory appliances, stop the Cassette at once and ensure that it cannot be started accidentally.
- ➢ Contact qualified personnel immediately to find the source of the malfunction.
- ➢ Clean up any leaked motor oil immediately.
- ➢ During operation, do not step on the Cassette.

Maintenance

- ➢ Carry out maintenance and inspections regularly.
- ➢ Only use original spare parts.

Interfaces to other devices

By assembling the Cassette into a system (e.g. with other Cassettes), potential hazards may occur. These are not described in this manual and must be analyzed during the design, installation, and startup of the respective system.

- ➢ After assembling the Cassette to other Cassettes or similar equipment, check the whole system for any new potentially dangerous conditions prior to turning on the equipment, especially at the end roller/ idler shaft, where cuts and crashes may occur.
- ➢ If necessary, implement further constructional measures.

A transition profile can be fitted to eliminate danger zones.

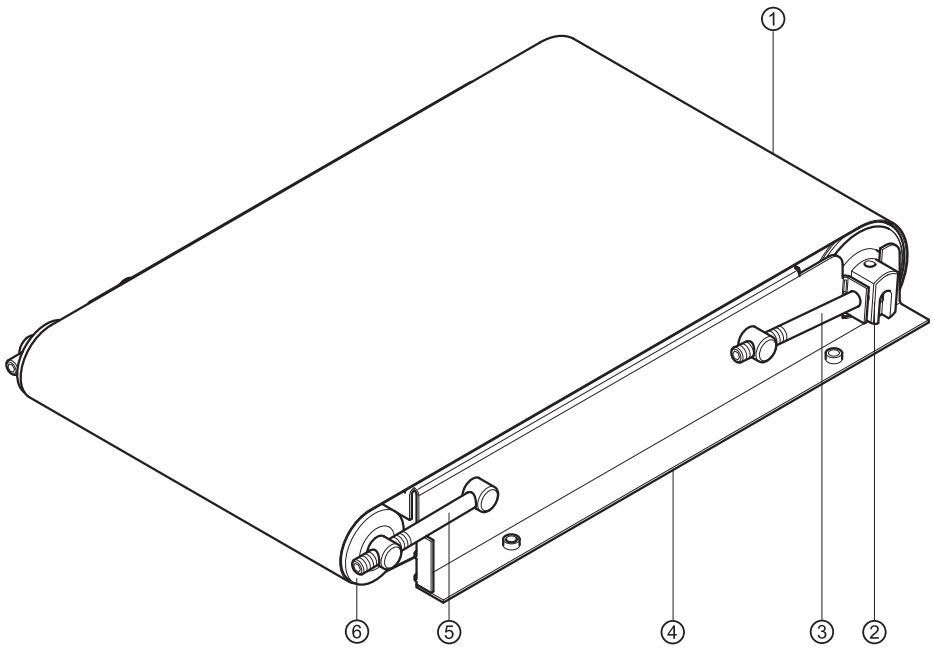
Operating modes

- **Normal mode**:
  Operation when installed as a Cassette in a system
- **Special mode**:
  All operating modes which are required to guarantee and maintain safe and normal operation as specified in the table below:

Special operating mode	Explanation	Comment
Transport / Storage	Loading / unloading, transport and correct storage	
Assembly / Initial start-up	Installation at the end customer's facility and execution of a test run	
Cleaning	Cleaning the outside without removing safety equipment	When de-energized
Maintenance / Repairs	Maintenance and inspection tasks	When de-energized
Troubleshooting	Troubleshooting during normal operation	
Fault elimination	Eliminating the fault	When de-energized
Shut-down	Removal from the system	When de-energized
Disposal	Removal from the system and disassembly	When de-energized

Product information

Components



① Belt
② Drum Motor
③ Adjustment bolt
④ Frame
⑤ Tensioning bolt
⑥ Idler roller

Characteristics

The Interroll Cassette system is a drive system to convey goods in supermarket checkout and in equipment used in supermarkets, including Retail Based Reversed Vending Machinery.

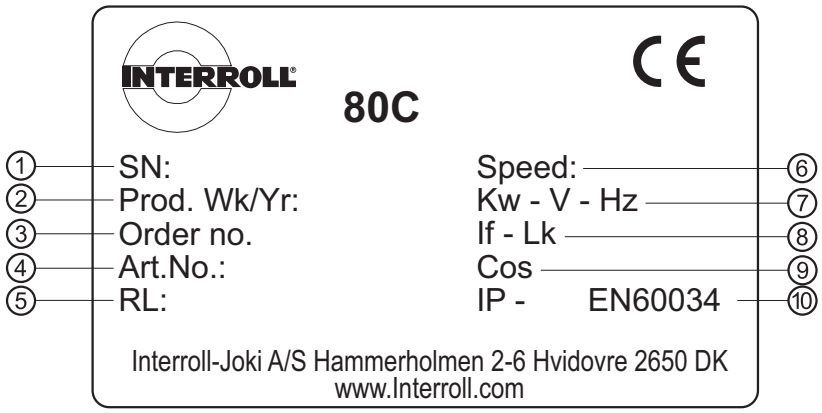
The Interroll Cassette system includes the patented **Quick tension / release idler system** for easy installation and change of the Cassette belt and other parts.

The Interroll Cassette system is available in numerous sizes and variants e.g.:

- With the Drum Motor at the end or in the middle
- As an incline / decline Cassette within set limits
- With a central drive and small diameter **SegRoll** idlers at both ends

Type plate

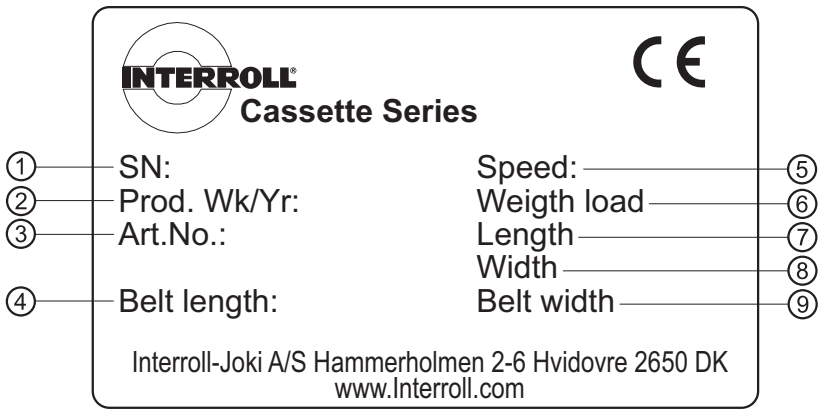
The specifications on the type plate for the drive (Drum Motor) are used to identify the Motor. It is located close to the drive. It is required to use the Drum Motor as intended.



Type plate for Drum Motor 80C

① Serial number
② Production week and year
③ Order number
④ Article number
⑤ Roller length
⑥ Drum speed
⑦ Rated power - Rated voltage and frequency
⑧ Rated current / Blocked motor current
⑨ Power factor
⑩ Protection rating

The specifications on the type plate for the Cassette are used for identification. The type designation is required for correct application of the Cassette.



Example of type plate for the Cassette

① Serial Number
② Production week and year
③ Article Number
④ Belt length
⑤ Belt Speed
⑥ Weight load
⑦ Length C/C
⑧ Width EL
⑨ Belt width

Product information

Product identification

To identify a Cassette, the following information is required.

6	C	1	U	5	X	X	-	RL
	①	②	③	④	⑤		-	⑥

①	Type no.	
②	Drive diameter	1 = 113 mm 5 = 50 mm 8 = 80 mm
③	Cassette type	U, L = standard models T, W, C = other models
④	Idler diameter	2 = 20 to 29 mm 3 = 30 to 39 mm 4 = 40 to 49 mm 5 = 50 to 59 mm
⑤	Consecutive numbering	
⑥	RL	Roller length of drive (Drum Motor)

Technical data

Design	L or U profiled (standard models) Standard: Idler belt tensioning Standard: Drum motor belt adjustment (one side only, left is standard, *see page 7*)
Load capacity	Small: 0 to 50 kg Medium: 50 to 100 kg Large: 100 to 150 kg
Cassette belt speed	Standard: 0.15; 0.17; 0.19 m/s Option: 0.11; 0.13; 0.21; 0.23; 0.25; 0.28; 0.30; 0.34 m/s On request: < 0.10 m/s; > 0.34 m/s
Cassette size	Min. Length C/C: 500 mm Max. Length C/C: 2980 mm Min. Width EL: 300 mm Max. Width EL: 700 mm Recommended minimum length / width ratio = 2 On request: length > 2980 mm; width > 700 mm
Incline / Decline	available on request
Ambient temperature	Operation: +10 °C to +40 °C Storage: -10 °C to +50 °C
Humidity	Max. 90 %, non-condensing
Noise	Leq < 60 db(A)
Drive Voltage	AC: 1 x 230 V / 50 Hz; 3 x 230 V / 50 Hz; 3 x 400 V / 50 Hz DC: 1 x 24 V Other voltages and frequencies on request
Power	40, 50, 60, 75, 85, 110 W
Drive Diameter	81 / 113 mm Other diameters available on request
Idler Diameter	Standard: 50 mm Other diameters available on request
Frame materials	Galvanized steel
Drive materials	Drum Motor shell surface protected Endhousings and shaft cap aluminium Idler shell galvanized or polymer segments Endhousing and endcap technopolymer
Belt material	Black PVC/ PET, 2 mm, 2-ply Pretension of belt 0.2 to 0.3 % Other belt types available on request

Transport and storage

Transport

⚠ CAUTION

Risk of injury due to improper transport

- Transport may only be carried out by qualified and authorized persons.
- Wear safety shoes.
- Make sure that the Cassette is fixed properly before transport.

NOTICE

Risk of damage to the Cassette due to improper transport

- Avoid hard shocks during transport.
- Do not transfer the Cassette between warm and cold environments. This may cause water condensation and may damage the Drum Motor.

- Check each Cassette for damage after transport.
- In case of damage, take photos of the damaged parts.
- Report any damage caused by transport immediately to the transport company and Interroll, to maintain warranty.

Storage

⚠ CAUTION

Risk of injury due to improper storage

- Do not stack other objects on the Cassette.
- Check the stability of the Cassette.
- Ensure proper fixing.

- Store the Cassette in a clean, dry and enclosed area between +15 and +30 °C and protect it from wetness and dampness.
- For storage periods of more than three months rotate the shaft periodically to prevent deterioration of the shaft seals.
- Check each Cassette for damage after storage.

Assembly

Assembly and installation

The Cassette is supplied fully pre-assembled at the installation site and must be installed into the final equipment.

The cassette is a subcomponent. The customer has to ensure that the cassette is sufficiently covered and that the entire machine is CE conform.

⚠ DANGER

Danger of death due to live cable ends!

- Electrical installation should only be carried out by qualified electricians.
- Disconnect the unit from the power supply.
- Observe the minimum bend radii of the cables, hoses and wires. Observe correct protection of the cable.
- Always check cables and assemblies for damage prior to installation.
- Refer to the Drum Motor label for connection values.
- Connect the Drum Motor in accordance with EN-IEC 60204-1. Refer to the Drum Motor manual for wiring information. If the Cassette is supplied with an individual plug, also refer to the plug installation guide.
- Connect the Cassette frame to ground.

⚠ WARNING

Risk of injury due to incorrect assembly!

- Assembly must be carried out by qualified persons in accordance with the safety instructions.
- Ensure that nothing (e.g. any tracking profile attached to the belt) can rub against the Cassette. During alignment, ensure that a minimum distance of 5 mm is observed for all operating conditions.
- After installation, ensure that passageways are clear of obstacles. If necessary, assemble walkways.
- When integrating the Cassette into a system, consider possible danger zones, especially in places where cuts and crushing may occur.
- Ensure that the cassette is sufficiently covered.

- Set the Cassette to its desired place. Use a bubble level for this task.
- Secure the Cassette, ensuring it is not twisted or warped or moving unter operation.
- Align the module (*see "Adjusting tension and tracking the belt", page 16*) and ensure there is no contact between moving parts. The belt tracking can be affected if correct aligning is not made.

Power is supplied to the cassette either via a CEE plug or direct installation in a control panel.

Initial startup and operation

Initial startup

⚠ WARNING

Risk of injury due to incorrect handling!

- Check electrical connections and protective equipment.
- If the Cassette is supplied with an individual plug cable for the Drum Motor, check the plug installation guide accompanied with the Cassette.
- Remove unintended material from the Cassette and belt.
- Ensure that unauthorized persons are not in the danger zones.
- Wear safety shoes and suitable work clothes.

- Do not operate the Cassette before it is correctly installed and connected to the power supply, with all rotating parts protected or guarded by the original equipment.

Inspections before initial startup

The Cassette has been factory tested. The belt adjustment and the belt tension are factory set and do not normally have to be altered. However, before the initial startup of the Cassette the following procedures must be carried out:

- If faults occur during initial startup, stopp the cassette and adjust the belt setting (*see "Adjusting tension and tracking the belt", page 16*).
- Check the direction of travel prior to initial startup. If necessary, correct the direction.

Standard direction of travel of the belt is when the Drum Motor is pulling the belt and not pushing the belt. Pushing the belt is allowed, but in this case belt tracking may be more difficult.
If the idler is blocked in standard direction of travel, the idler and tension system may pop up and belt tension is altered and may be gone. This is an indication that something is blocking the idler.

Start-up and operation

⚠ WARNING

Rotating parts
Crushing and serious injury due to being caught and pulled into the Cassette.

- Do not remove the protective covers.
- If you have long hair, always wear a hair net.
- If goods become trapped in the side guides, switch off the Cassette and ensure that it cannot be started accidentally, then eliminate the fault.
- If the idler becomes blocked, the idler and tension system may pop up whereby the belt becomes loose; switch off the Cassette immediately.

Inspections prior to each operation

- Check the Cassette for visible damages. Pay special attention to belt, guides and support stands.
- Check the Drum Motor for visible damage.
- Ensure that no objects are in contact with rotating or moving parts.
- Ensure that the Drum Motor is free to move.
- Ensure that all safety equipment is functioning correctly.
- Make sure that only authorized persons are in the working area of the Cassette.
- Remove materials and objects that are not required from the working area.
- Provide instructions for correct loading of the Cassette and monitor it.

Procedure in case of accident or malfunction

- Stop the device and ensure that it cannot be started accidentally.
- In case of an accident: Provide first aid and call for emergency assistance.
- Inform responsible persons.
- Have the malfunction repaired by qualified persons.
- Restart the device only after approval by qualified persons.

Maintenance and cleaning

Cleaning

⚠ WARNING

Risk of injury due to improper handling

- Ensure the Cassette is de-energized before cleaning it. Disconnect the power supply and ensure that it cannot be connected accidentally.
- Do not remove safety equipment.
- Wear safety shoes and close fitting work clothes.

- Only dry clean the belt.
- Only use suitable cleaning agents.
- Clean panels on the underside with compressed air.

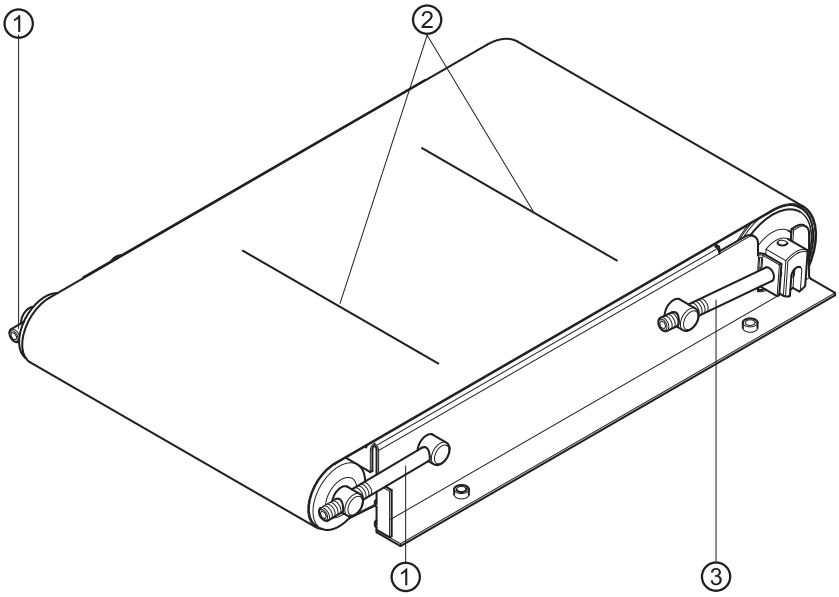
Maintenance and repair work information

⚠ DANGER

Danger of death due to high voltages

- Switch off the supply network system, ensuring that the device cannot be started accidentally and that the power supply has been disconnected correctly.
- Work at electrical appliances should only be carried out by authorized and qualified electricians.
- Display signs warning of maintenance and repair work when carrying out tasks.
- Guard off the area around the Cassette.
- Inform people entering the guarded off area of the risks.

Adjusting tension and tracking the belt



Adjustable parts of the Cassette

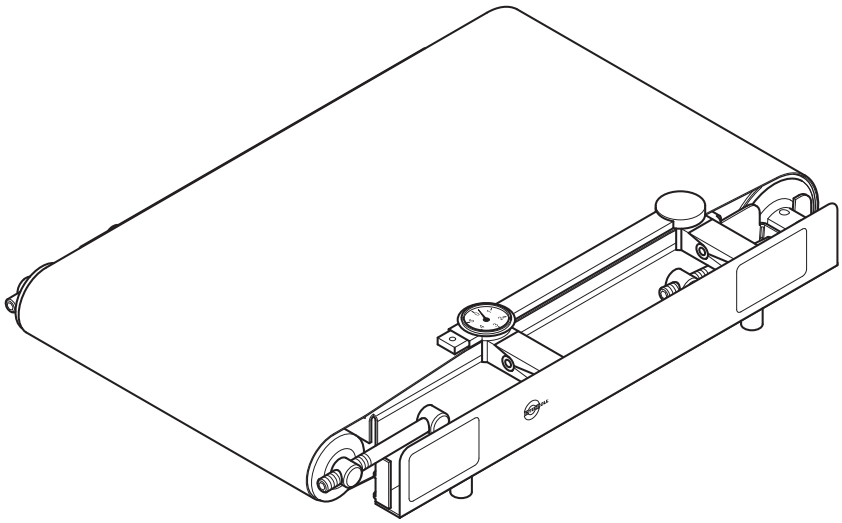
① Tensioning bolts
② Measuring marks
③ Adjusting bolt

NOTICE

Risk of damaged belts and bearings due to high belt tension

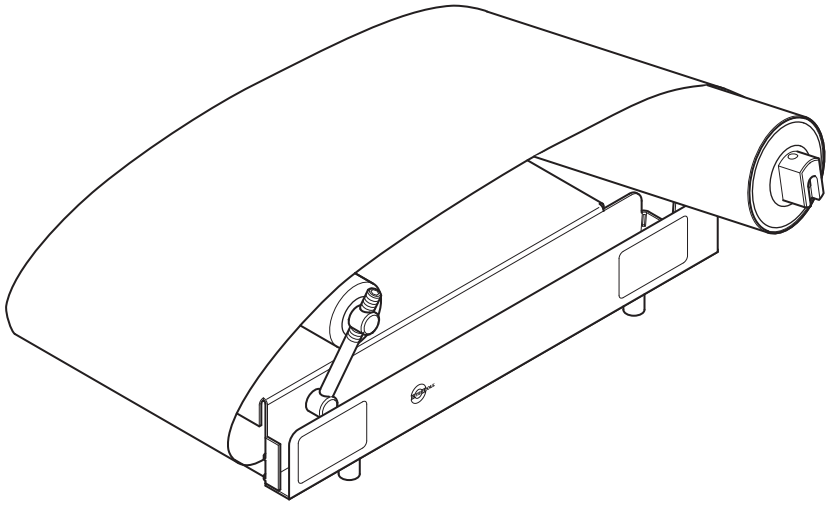
- Make sure, that the tension is set correctly based on the weight of the conveyed goods. The higher the weight, the higher the tension.
- Belt tension should not exceed 0.3 % of elongation. The typical value is between 0.1 to 0.3 %.

- For belt tension use a tensioning measuring device, or in non-tensioned state, mark two measuring guides / marks ② on the belt, e.g. 1000 mm distance.
- Tension the belt by turning the tensioning bolts evenly until the elongation is 0.1 to 0.3 %. In this example until the distance is 1001 to 1003 mm.
- Easy tensioning: move up the release / tension bolts ① and idler over the center, adjust the bolts by hand only to push the idler back down in the position below center.
- For easy tensioning, the release / tension bolts ① and idler may be moved up over center. The bolts can be adjusted by hand only and the idler can be pushed back down in position below center.
- For easy tracking of the belt, use the adjustment bolt ③ next to the Drum Motor shaft cap.
- If the belt tends to run to the adjustment bolt side, turn the bolt ③ slightly. If it runs to the opposite side, loosen the bolt slightly (half turn of bolt).
- If tracking is difficult, it may help to stop the Cassette. Loosen the idler release / tension system, center the belt on idler / Drum Motor by hand, and restart.



Belt-tension measuring device

Replacing the belt, idler or Drum Motor



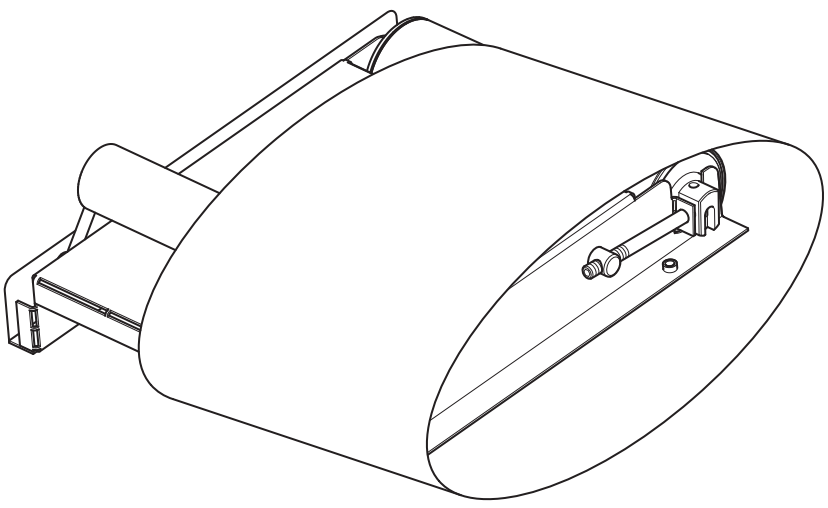
Removing the Drum Motor

Disassembly

- Disconnect the Cassette Drum Motor from the power supply.
- Release the quick release / tension idler system.
- Pull the belt off the frame.
- Lift the motor out of the Cassette frame slots. It is recommended to first remove the plug, if the drive is installed with a plug system.
- Pull out the idler including the tension bolts.

Installing the belt

- Ensure the cassette is disconnected from the power supply.
- Reassemble the cassette in reverse order.
- Adjust tension with the 2 tensioning bolts and adjust the belt by adjusting the bolt next to the drive shaft cap.
- Carry out a test run with at least four complete belt turns.



Replacing the belt

Maintenance intervals

Refer to the manufacturer's documentation for information about lubricating intervals and maintenance tasks for the Drum Motor.

Maintenance and inspection list

Interval	Match No. / Type Part	Task / Inspection
weekly	Entire Cassette	General visual inspection.
monthly	Entire Cassette	Check screwed connections. Re-tighten if necessary.
	Drive rollers / end rollers	Listen for noise development / Check for damage. Replace if necessary.
	Belt	Check operationg behavior and voltage. Adjust if necessary.
		Check for damage. Replace if necessary.
		Check belt support end for soiling. Clean if necessary.
quarterly	Drum Motor	Check Drum Motor (visual inspection).
		Check temperature.
		Listen for noise development. Replace if necessary.
		Check for oil loss
		Check for true running (shaft-mounted geared motor).
every 6 months	Entire Cassette	Check for debris / dirt. Clean if necessary.

Troubleshooting

Error search

⚠ DANGER

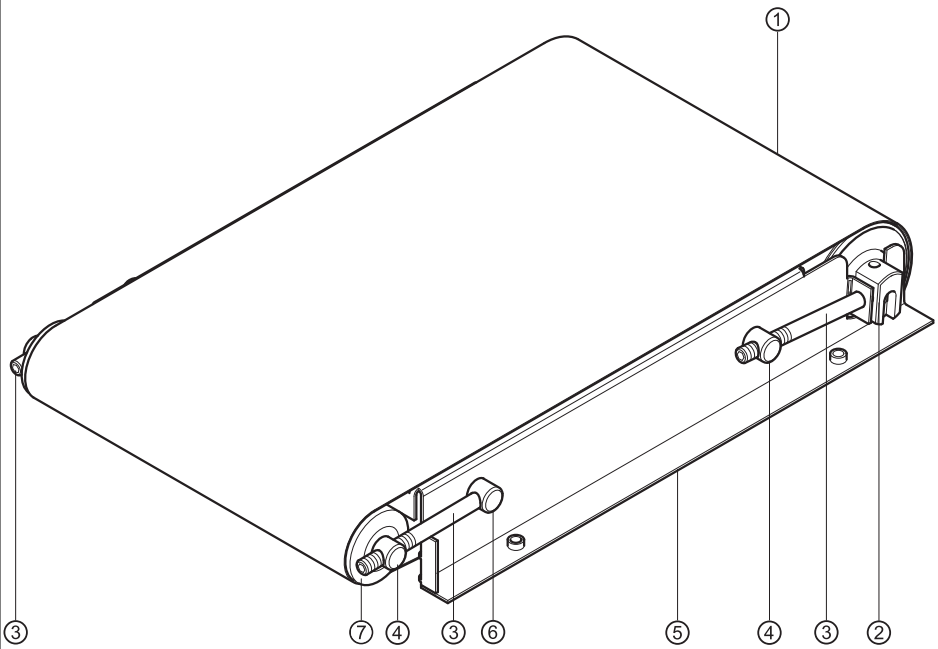
Danger of death due to electric shock!

- Ensure that the Cassette has been de-energized before carrying out maintenance and repair work.
- Faults at electrical appliances should only be eliminated by qualified electricians.
- Operators are only allowed to eliminate faults which are clearly related to an operator error.
- Stop the device immediately and ensure that it cannot be started accidentally.
- Remove the conveyed material.
- Always make sure that nobody can be injured before restarting the Cassette.
- Dispose of any leaked oil correctly. If necessary, a specialist must replace the drum motor.

Symptom	Possible cause	Help
Transport cannot be started and Drum Motor is not running	Mains switch and / or control switched off; capacitor problem	Check the switch position. If necessary, actuate the mains switch and / or key-operated switch of the control. Check capacitor.
	Belt too loose / Transport weight too high	Re-tension the belt Observe maximum weight
Belt rubs against the side frame	Belt adjustment is not straight	Adjust the belt to run straight
Protective motor switch is triggered by excessive power input	Gearing defective / drive roller bearing defective	Replace defective parts.
	Short circuit	Check electrical connections and replace defective parts.
	Excessive unit load	Observe maximum weight.
Noise development / squeaking / whistling	Bearings defective	Replace bearings.
	Belt rubbing	Eliminiate the source.

Spare and wear parts

Spare parts Cassette



Spare parts drawing

① Belt
② Drum Motor
③ Tensioning / Adjusting bolt
④ Roller Shaft
⑤ Frame
⑥ Adjusting Shaft
⑦ Idler / roller

Order details

Precise identification of the device is imperative when ordering spare and wear parts, see “product identification”.

The following information is required for an order:

- Art. No.
- Type
- Position number
- Name
- Comment

Please contact your supplier for futher information.

Abandonment and disposal

Abandonment

⚠ CAUTION

Risk of injury due to improper handling

- Abandonment may only be executed by qualified and authorized persons.
- Only abandon the Drum Motor after switching off the power. Ensure that the Drum Motor cannot be turned on accidentally.

- Disconnect the motor cable from the supply voltage and control.
- Release the belt tension.
- Remove the retaining plate from the mounting bracket.
- Extract the Drum Motor from the Cassette frame.

Disposal

- Adhere to the manufacturer's disposal documents when disposing of motor oil.
- To protect the environment, recycle the packaging

NOTICE

Risk of pollution of the environment

- Ensure that materials which are hazardous to waters, such as grease, lubricants, hydraulic oil, coolants or solvent-based cleaning fluids, do not pollute the ground or enter the sewage system during operation!
- Always keep, transport, collect and dispose of these materials in suitable containers.
- Observe information about suitable storage containers.
- Adhere to further national regulations.

The operator is responsible for the proper disposal of the Drum Motor. In doing so, industry-specific and local provisions must be observed for the disposal of the Drum Motor and its packaging.

Appendix

Guarantee for Interroll Drum Motors and Cassette Systems

Interroll provides a 2 year guarantee covering their range of Drum Motors and Cassette Systems against faulty workmanship and/or materials from the date of delivery or collection from the factory. The guarantee period is based on normal operational use of the product for 8 hours per day, unless otherwise previously agreed to in writing.

Subject to the terms of this guarantee, Interroll will repair or replace any faulty product free of charge that is returned to their factory within the guarantee period. Repairs carried out under the guarantee period will not extend the guarantee.

Warranty restrictions

Interroll and their distributors accept no liability for failure or damage to the product due to:

- Failure to carry out Interroll's installation or maintenance instructions
- Failure to install a recognized motor protection device
- Failure to connect the Interroll internal thermal protection switch when fitted
- Damage to the belt from cutting and cuts from sharp objects
- Damage to the belt from improper belt tracking, overtensioning or damage from corrosive fluids
- Reversing the Drum Motor before the motor has come to a complete stop
- Use of the drum motor outside the specifications stated on the data plate and/or current Interroll catalog or quotation
- Repairs, alterations or modifications to the product by anyone other than a qualified Interroll representative will render this guarantee null and void unless such repairs have been previously agreed to in writing by Interroll.

Exclusions

The INTERROLL guarantee excludes any liability for:

- Rubber lagging or other added materials due to normal wear or misuse
- Cost of the removal and return of the product to INTERROLL under the terms of this guarantee
- Damage to other equipment used in connection with the product
- Loss of earnings, personal injury and any other costs incurred due to the failure of the product

Appendix

Declaration of incorporation

in terms of the EC-Machine Directive 2006/42/EG, Annex II 1 B

The manufacturer

Interroll Joki A/S
Hammerholmen 2-6
2650 Hvidovre
Denmark

hereby declares with sole responsibility that the product series

- Drum Motor C-series
- Drum Motor S-SMP-series
- Drum Motor S-series DC version
- Cassette C-series

fully complies with the safety and health requirements of the Machinery Directive 2006/42/EC Appendix I.

The relevant technical documents in accordance with appendix VII B are available and will be presented to the competent national authorities electronically, if required.

Person authorized to compile the technical file: Jan Støvring Jensen, Interroll Joki A/S, Hammerholmen 2-6, DK-2650 Hvidovre

The partly completed machinery complies with the following EC directives:
- Low Voltage Directive 2006/95/EC
- EMC Directive 2004/108/EC
- RoHS Directive 2002/95/EC

The following harmonised standards were applied:
- EN ISO 12100-1
- EN ISO 12100-2
- EN ISO 14121-1

Initial start-up of the partly completed machinery is not permitted until the machinery is incorporated into a machinery which complies with the machinery directive. The EC declaration of conformity must be available according to appendix II A.

Hvidovre, Denmark, September 15th 2011

Anders Staf Hansen

(Managing Director)

(This declaration can be obtained at www.interroll.com, if needed.)

Appendix

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Version 1.0 (11/2011) en
Original instructions